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21 [Robust, distributed references and acyclic garbage collection](#)

Marc Shapiro, Peter Dickman, David Plainfossé

October 1992 **Proceedings of the eleventh annual ACM symposium on Principles of distributed computing PODC '92**

Publisher: ACM Press

Full text available: [pdf\(1.27 MB\)](#)

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22 [Security Mechanisms in High-Level Network Protocols](#)

Victor L. Voydock, Stephen T. Kent

June 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 2

Publisher: ACM Press

Full text available: [pdf\(3.23 MB\)](#)

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23 [Directed diffusion for wireless sensor networking](#)

Chalermek Intanagonwiwat, Ramesh Govindan, Deborah Estrin, John Heidemann, Fabio Silva

February 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 1

Publisher: IEEE Press

Full text available: [pdf\(589.26 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Advances in processor, memory, and radio technology will enable small and cheap nodes capable of sensing, communication, and computation. Networks of such nodes can coordinate to perform distributed sensing of environmental phenomena. In this paper, we explore the *directed-diffusion* paradigm for such coordination. Directed diffusion is data-centric in that all communication is for named data. All nodes in a directed-diffusion-based network are application aware. This enables diffusion to ...

Keywords: data aggregation, data-centric routing, distributed sensing, in-network processing, wireless sensor networks

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Taek Jin Kwon, Mario Gerla



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81 [Data abstraction and information hiding](#)



K. Rustan M. Leino, Greg Nelson

September 2002 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 24
Issue 5

Publisher: ACM Press

Full text available: pdf(469.27 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article describes an approach for verifying programs in the presence of data abstraction and information hiding, which are key features of modern programming languages with objects and modules. This article draws on our experience building and using an automatic program checker, and focuses on the property of *modular soundness*: that is, the property that the separate verifications of the individual modules of a program suffice to ensure the correctness of the composite program. We fo ...

Keywords: Abstract variables, abstraction dependencies, extended static checking, modifies clauses, modular verification, object-oriented programming, specifications

82 [New dynamic algorithms for shortest path tree computation](#)

Paolo Narváez, Kai-Yeung Siu, Hong-Yi Tzeng

December 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 6

Publisher: IEEE Press

Full text available: pdf(251.39 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: routing, shortest path trees

83 [Data structures for weighted matching and nearest common ancestors with linking](#)

Harold N. Gabow

January 1990 **Proceedings of the first annual ACM-SIAM symposium on Discrete algorithms SODA '90**

Publisher: Society for Industrial and Applied Mathematics

Full text available: pdf(1.20 MB)

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